

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A Reversible spray head for a spray guns gun, the spray head comprising: including
a central body fixed to the spray gun;
a reversible element placed in a the central body, the reversible element comprising a channel with a spray hole at each end of the channel;
a shrink ring placed at one end of the channel;
~~and through which there is a channel with a spray hole at one end and a~~
two spray inserts, each of the two spray inserts placed in the channel and opposite to each other and;
~~a watertight fluid-tight joint placed between the rotating element and the gun onto which the central body is fixed, characterised by the fact that the channel of the reversible element has a spray hole at each end~~
two inserts, wherein one of the inserts abuts a stop located at one end of the channel and the other insert abuts the shrink ring, and the inserts are placed under tension by the shrink ring.

2. (currently amended) ~~Spray-~~The spray head according to claim 1 characterised by the spray holes placed at each end of the channel including two spray inserts placed opposite each other and a watertight joint placed between the two inserts, the unit formed by the two opposite inserts and the joint abutting a stop at one end of the channel, on the one hand, and being placed under tension by a shrink ring screwed to the other end of the channel, on the other, wherein
when the reversible element is in a first position, a first spray pattern is produced and when the reversible element is in a second position, a second spray pattern is produced.

3. (currently amended) ~~Spray~~ The spray head according to claim 21, ~~characterised by the fact that, wherein~~ the two opposite spray inserts are aligned with each other by ~~means of an~~ internal metal tube.

4. (currently amended) ~~Spray~~ The spray head according to ~~sub-claim 21~~, characterised by the fact that wherein the spray inserts ~~forming the spray holes~~ are made from tungsten carbide and are V-shaped, so as to obtain different spray angles ~~and different flows~~.

5. (currently amended) ~~Spray~~ The spray head according to ~~sub-claim 21~~, characterised by the fact that wherein the fluid-tight joint ~~placed between the two opposite inserts~~ is made of in PTFE Teflon or polyamide.

6. (currently amended) ~~Spray~~ The spray head according to claim 1, characterised by the fact that wherein the spray holes or the inserts (10, 11) are cut in such a way as to have a spray angle of 30 to 120° at one end of the channel, and ~~while at the other end of the channel, the~~ to have a spray angle will be of from 5 to 25° at the other end of the channel.

7. (currently amended) ~~Spray~~ The spray head according to claim 1, characterised by the fact that wherein the reversible element ~~in which the channel containing the two spray holes~~ is ~~placed~~ is a cylindrical shaped key passing through the central body ~~of the spray head, and~~ wherein a 180° rotation of the key ~~allowing to switches~~ change from one spray hole to the other.

8. (currently Amended) ~~Spray~~ The spray head according to claim 1, ~~characterised by the fact that~~ wherein the reversible element ~~in which the channel containing the two spray holes is placed~~ is a key which has a sphere in the ~~centre~~ center inserted into the central body ~~of the head, and the channel passing~~ passes through the ~~middle of the sphere, wherein a 180° rotation of the key allowing~~ switches one to change from one spray hole to the other.

9. (currently amended) ~~Spray~~ The spray head according to claim 1, ~~characterised the fact that~~ wherein the reversible element further comprises: includes

a support component ~~with having a conical~~ conical-shaped front part ~~[[,]]~~ into which an internal component having a conical-shaped back part is screwed ~~with a back part also conical, wherein the angle of the cones of the front and rear-back parts -of the element being are the same, and wherein the two parts enclosing a unit formed form a unit by the two opposite inserts separated by a~~ the fluid-tight joint.

10. (currently amended) ~~Spray~~ The spray head according to claim 9, ~~characterised by the fact that~~ wherein the two inserts are aligned with each other by ~~means of an internal metal tube.~~

11. (currently amended) ~~Spray~~ The spray head according to claim 9, ~~characterised by the fact that~~ wherein the two components ~~with a tapered front and back part~~ are made out of metal and screwglued one inside the other.

12. (currently amended) ~~Spray~~The spray head according to claim 21, ~~characterised by the fact that the top part of the head has further comprising~~ two projections located on ~~the an~~ outer edge of the spray head and positioned ~~and face to face~~ on top of ~~the an~~ upper surface of the head, wherein the projections having oblong holes such that ~~making it possible to direct~~ a supply of additional air coming from the gun through channels passing through the head can be directed, and further wherein the oblong holes ~~being are~~ arranged to ~~atomise~~ atomize ~~the a~~ main high pressure jet coming from ~~the a~~ central nozzle of the insert.

13. (currently amended) ~~Spray~~The spray head according to claim 8, ~~characterised by the fact that wherein~~ the oblong holes are arranged to direct conditioned air onto ~~the a~~ ball which protrudes two to five ~~millimetres~~ millimeters from ~~the an~~ upper surface of the spray head.

14. (currently amended) ~~Spray~~The spray head according to claim 1, ~~characterised by the fact that wherein~~ ~~the a~~ top part portion of the spray head has four additional air nozzles placed either side of ~~the a~~ main oblong hole of the insert, the nozzles being connected to channels supplying additional air in a turn connected to ~~a an~~ annular chamber supplied with air by the spray gun ~~in such a way that~~ a pressure variation of the air coming out of the nozzles makes it possible to strike ~~the a~~ main high pressure beam coming out of the insert, and close the ~~said~~ beam according to the increase in pressure of the additional air coming out of the spray gun.

15. (currently amended) ~~Spray~~The spray head according to claim 14, ~~characterised by the fact that wherein~~ the nozzles and the channels are arranged in such a way as to allow one to

change the beam coming from the insert from an angle in the range of 90° to 120° to an angle in the range of up to 30°.

16. (currently amended) ~~Spray~~ The spray head according to claim 14, ~~characterised by the fact that wherein~~ the nozzles and channels are arranged in such a way as to make it possible to change the beam coming from the insert from an angle of 25° to an angle of 5°.

17. (currently amended) ~~Spray~~ The spray head according to claim 21, ~~characterised by the fact that wherein~~ the spray holes or the inserts are cut in such a way as to have a spray angle of 30 to 120° at one end of the channel, while at the other end of the channel, the spray angle will be from 5 to 25°.

18. (currently amended) ~~Spray~~ The spray head according to claim 21, ~~characterised by the fact that wherein~~ the reversible element ~~in which the channel containing the two spray holes is placed~~ is a cylindrical shaped key passing through the central body of the spray head, wherein a 180° rotation of the key ~~allowing to change switches~~ from one spray hole to the other.

19. (currently amended) ~~Spray~~ The spray head according to claim 21, ~~characterised by the fact that wherein~~ the reversible element ~~in which the channel containing the two spray holes is placed~~ is a key which has a sphere in the ~~centre~~ center inserted into the central body of the head, the channel passing through the middle of the sphere, wherein a 180° rotation of the key ~~allowing one to change switches~~ from one spray hole to the other.

20. (currently amended) ~~Spray~~The spray head according to claim 21, ~~characterised by the fact that~~wherein the reversible element includes a support component with a conical front part, into which an internal component is screwed with a back part also conical, the angle of the cones of the front and rear parts of the element being the same, the two parts enclosing a unit formed by two opposite inserts separated by a joint.

21. (currently amended) ~~Spray~~The spray head according to claim 12, ~~characterised by the fact that~~wherein the oblong holes are arranged to direct conditioned air onto the ball which protrudes two to five ~~millimetres~~millimeters from the upper surface of the head.

22. (currently amended) ~~Spray~~The spray head according to claim 21, ~~characterised by the fact that~~wherein ~~the~~a top part~~portion~~ of the head has four additional air nozzles placed either side of the main oblong hole of the insert, the nozzles being connected to channels supplying additional air in turn connected to a annular chamber supplied with air by the gun in such a way that a pressure variation of the air coming out of the nozzles makes it possible to strike the main high pressure beam coming out of the insert, and close the said beam according to the increase in pressure of the additional air coming out of the gun.